dp

data processing

INDEX

Volume 27 Nos 1–10
January/February – December 1985

TITLE INDEX*

Applications

Application of DBMS (10)41
Backup and recovery in accounting information systems (3)42
Developments in retail banking (5)37
Instant credit now available (5)42
Medical research aided by minicomputers (7)37
OA at university (5)32
Point of demand stock control (1)45
Security advances in banking systems (5)34
Source data entry in a retail business (1)42

Communications

Advantages of speech over text (8)10
Benefits of close coupled networks (3)26
Cellular technology in telephones (8)34
Corporate networking and the PC (7)17
Credit authorization by telephone (5)44
Dataflow across national borders (7)9
Developing the micro link (1)18
Effective transfer of data through multiplexing (1)26
Electronic trade data interchange projects (7)13
Functions of multiplexers (1)23
Future for corporate networks (6)37
Global developments for videotex (8)20
Greater acceptance of electronic mail (8)7
Human factors in expert systems (4)15
Implications of value added network services (6)41
Infrared link between offices (2)26
Micro/mainframe links (1)15
OSI enters the implementation phase (1)11
One network for everything, everywhere (6)35
Real-time videotex service (8)15
Sharing intellectual space (2)28
Terminal front end for a Vax (7)21
Terminal/mainframe links (1)20
Time to face fax (8)38
Uses for computer conferencing (8)30
Using PABX for voice and data in large networks (8)25
Worldwide networking for academics (5)27

Office automation

Building for the automated office (2)24
Office automation in practice (2)18
Putting OA to good use (2)21

Policy

A flexible approach to technical writing (5)16
An integrated approach to systems development (3)13
Benefits of capacity planning (10)11
Building an IPSE from proven methodologies (3)11
Capacity management as a decision support system (10)15
Choosing the right maintenance company (10)9
Concepts on an integrated project support environment (3)8
Database administration — a changing role (8)3
Employment prospects for senior staff (1)9
Evaluating the office automation pilots (2)15
Factors inhibiting Australian office automation (2)13
Human factors in workstation design (5)13
Injury from VDU work (5)6
International standards for VDU design (5)9
Migrating to IBM (7)4
New technology but old methods (6)16
Planning for office automation (2)10
Planning the computer room (6)13
Professional qualifications (1)6
Programming personal computers (6)6
Project planning and control (3)19
Reality differs from the OA vision (2)6
Software quality in the fourth-generation technique environment (10)6

Profile

Computer exhibitions — an overload market? (7)40
Honeywell narrows its aims (4)40
Need for communications structure in India (8)45

Systems

A consultant's view of expert systems (4)12
A quantitative model for the support of software management (9)50
Advances in disc storage technology (1)29
Adviser and Reveal as frameworks for expert systems (4)21
AI in manufacturing: an organic approach to manufacturing cells (4)31
AI programming languages: requirements, facilities and techniques (4)8
AI tools for DP — programming under uncertainty (4)24
Automated development methodologies (2)43
Building systems on relational database (3)22
Capturing the semantics of an IPSE database (9)33
Choosing DEC-compatible terminals (6)32
Choosing printers for the office (2)34
Controlling the supply of drugs (3)25
Conversion management (10)26
DASD I/O performance management (10)21
Decision support in large organizations (4)28
Designing software interfaces to suit everyone (8)43
Documentation support — a route to full life cycle productivity (9)44
Experience using a network of workstations (9)60
Experience using artificial intelligence (9)64
Ferranti and the art of inference (4)18
Floppy disc developments (7)34
Fourth-generation languages and advanced software development aids (9)6
Fourth-generation languages — how to choose the right one (9)9
Graphics in energy network control (5)24
History and future for FORTRAN (1)39
Improvements in ink-jet technology (7)31
Improving software productivity through standard design templates (9)57
Integrating international videotex services (4)37
Ionography in electronic printing (3)37
Lap top computers review (3)29
Laser printing in publishing (3)40
Management techniques to control software development (9)31
Methods of maintenance (9)22
Networking for travel agents (2)46
Office technology (2)30
Overview of software engineering (9)27
Potential for change (4)35
Power supplies for the office (2)39
Programmers' workbenches — practical experience (9)16
Prototyping for systems building (7)24
Radiation and the unborn child (2)37
Remote diagnosis for peripheral faults (1)36
Review of nonimpact print technologies (3)33
Review of two fourth generation products for IBM users (2)40
Role of the workstation in the automated office (2)31
Security for the US department of Defense (6)33
Security in computer installations (6)19
Software reliability (10)32
Software translation as a tool for productivity (7)27
Streaming tape backup (1)33
Structured methods: ten questions you should ask (9)28
Supporting systems software (5)19
Technical requirements of 4GLs (9)12
The alternative operating software (6)27
The C programming language (10)37
Turning your PC into a CAD workstation (5)22
Using fourth-generation tools (6)29
VDU terminals survey (6)25
What are methodologies good for? (6)9

*Numbers in brackets refer to issue numbers.

AUTHOR INDEX

Aherne, J, Benefits of close coupled networks (3)26
Andrews, D, Overview of software engineering (9)27
Arkell, S, Security for the US Department of Defense (6)23
Ayres, M G, Functions of multiplexers (1)23
Benson, R, Migrating to IBM (7)4
Berns, T, International standards for VDU design (5)9
Bevan, M, Corporate networking and the PC (7)17
Bignell, B, Ionography in electronic printing (3)37
Bird, J, Cellular technology in telephones (8)34
Bird, J, Computer exhibitions — an overloaded market? (7)40
Bird, J, Honeywell narrows its aims (4)40
Bird, J, Lap top computers review (3)29
Bird, J, Putting OA to good use (2)21
Bird, J, Turning your PC into a CAD workstation (5)22
Bird, J, VDU terminals survey (6)25
Brittaine, R, Choosing the right maintenance company (10)9
Brooks, C, Review of two fourth generation products for IBM users (2)40
Broughton, D, Building an IPSE from proven methodologies (3)11
Brown, M, New technology but old methods (6)16
Brown, M, Planning for office automation (2)10
Brown, M, Potential for change (4)35
Brown, M, Radiation and the unborn child (2)37
Brunt, M, Floppy disc developments (7)34
Burton, K, Medical research aided by minicomputers (7)37
Butler, D, Experience using artificial intelligence (9)64
Capes, G, Conversion management (10)26
Catton, D, AI tools for DP — programming under uncertainty (4)24
Chivers, I D, History and future for FORTRAN (1)39
Clark, M W, see **Chivers, I D**
Clasper, R N, see **Marshall, J**
Collier, H, Dataflow across national borders (7)9
Collyer, P, Database administration — a changing role (8)3
Cook, D, Advances in disc storage technology (1)29
Cowan, D, Software reliability (10)32
Crossman, T, Software quality in the fourth-generation technique environment (10)6
Dawes, B, Management techniques to control software development (9)31
Dithmar, H, Capacity management as a decision support system (10)15
Donhauser, H, see **Steele, M**
Earl, A, see **Whittington, R**
Evans, M, Security advances in banking systems (5)34
Eyres, R, Planning the computer room (6)13
Forage, G, Fourth-generation languages and advanced software development aids (9)6
Foster, E, Source data entry in a retail business (1)42
Gilbert, G N, Decision support in large organizations (4)28
Hall, P, Experience using a network of workstations (9)60
Hampton, F, Human factors in workstation design (5)13
Haworth, E, Terminal front end for a Vax (7)21
Hayman, M, Controlling the supply of drugs (3)25
Hoy, S, DASD I/O performance management (10)21
Garth, M, Benefits of capacity planning (10)11
Gilmore, B, Using PABX for voice and data in large networks (8)25
Gower, J, Evaluating the office automation pilots (2)15
Gregory, J, Infrared link between offices (2)26
Gupta, G K, Injury from VDU work (5)6
Haysom, P, Improvements in ink-jet technology (7)31
Hopelain, D, Automated development methodologies (2)43
Howarth, N, Remote diagnosis for peripheral faults (1)36
Hume, B, Credit authorization by telephone (5)44
Jackson, A, Ferranti and the art of inference (4)18
Jones, R, Building systems on relational database (3)22
Jones, R, Greater acceptance of electronic mail (8)7
Jones, R, Professional qualifications (1)6
Jones, R, Programming personal computers (6)6
Jones, R, Prototyping for systems building (7)24
Jones, R, Reality differs from the OA vision (2)6
Jones, R, Supporting systems software (5)19
Jones, R, The C programming language (10)37
Jones, R, Using fourth-generation tools (6)29
Jorgenson, D, see **Hume, B**
Kidd, A, Human factors in expert systems (4)15
King, C, Choosing DEC-compatible terminals (6)32
Lacey, M, Advantages of speech over text (8)10
Larmouth, J, OSI enters the implementation phase (1)11
Lawrence, K, Building for the automated office (2)24
Lawrence, K, One network for everything, everywhere (6)35
Lawrence, K, The alternative operating software (6)27
Lehman, M M, Concepts of an integrated project support environment (3)8
Loesh, B, see **Hopelain, D**
Loesh, R, Improving software productivity through standard design templates (9)57
Lord, D, Worldwide networking for academics (5)27
Lucas, S, Point of demand stock control (1)45
Mackenzie, G, Employment prospects for senior staff (1)9
MacLeod, A, Real-time videotex service (8)15
Marriner, G, Power supplies for the office (2)39
Marshall, J, Graphics in energy network control (5)24
Maskell, K, Software translation as a tool for productivity (7)27
Milner, D, An integrated approach to systems development (3)13
Morreale, R, Project planning and control (3)19
McGauren, P, Laser printing in publishing (3)40
Nelson, K, Technical requirements of 4GLs (9)12
Newell, C, Time to face fax (8)38
O'Donnell, S, see **Aherne, J**
Omotayo, O R, Designing software interfaces to suit everyone (8)43
Omotayo, O R, Effective transfer of data through multiplexing (1)26
Omotayo, O R, Integrating international videotex services (4)37
Omotayo, O R, Office technology (2)30
Packer, D, see **Eyres, R**
Parry, P, see **Hall, P**
Peacham, D, Structured methods, ten questions you should ask (9)28
Pitt, R, Programmers' workbenches — practical experience (9)16
Pye, R, see **Gower, J**

Continued

Pyle, I C, Uses for computer conferencing (8)30
Ramsay, A, AI programming languages: requirements, facilities and techniques (4)8
Rao, S, Role of the workstation in the automated office (2)31
Rees, F, Factors inhibiting Australian office automation (2)13
Richardson, T, Future for corporate networks (6)37
Richmond, T, Documentation support — a route to life cycle productivity (9)44
Rushinek, A, see **Rushinek, S**
Rushinek, S, Backup and recovery in accounting information systems (3)42
Sarich, A, Electronic trade data interchange projects (7)13
Saunders, J, Instant credit now available (5)42
Sedacca, B, Micro/mainframe links (1)15
Sheffield, B, Office automation in practice (2)18
Shimell, P, Networking for travel agents (2)46
Shroff, R, Developing the micro link (1)18
Sinclair, P, Terminal/mainframe links (1)20
Smith, C P, Developments in retail banking (5)37
Smith, J, see **Brooks, C**
Smith, K, Implications of value added network services (6)41
Stead, R, Choosing printers for the office (2)34
Steele, M, A quantitative model for software support (9)50
Stenning, N V, see **Lehman, M M**
Tam, R, Streaming tape backup (1)33
Thompson, G P, Sharing intellectual space (2)38
Townsend, J, Application of DBMS (10)41
Turner, M, A consultant's view of expert systems (4)12
Van Duyn, J, A flexible approach to technical writing (5)16
Van Duyn, J, Security in computer installations (6)19
Veryard, R, Methods of maintenance (9)22
Veryard, R, What are methodologies good for? (6)9
Vince, N, Adviser and Reveal as frameworks for expert systems (4)21
Viswanath, N, Need for communications structure in India (8)45
von Bornstaedt, F, Global developments for videotex (8)20
Warland, P, OA at university (5)32
Warman, E, AI in manufacturing: an organic approach to manufacturing cells (4)31
Watts, R, Fourth-generation languages how to choose the right one (9)9
Whittington, R, Capturing the semantics of an IPSE database (9)33
Wilkinson, H, see **Hall, P,**
Willis, M, Review of nonimpact print technologies (3)33

BOOKS REVIEWED

Ashley, Ruth, and Fernandex, Judi N, *Advances structured COBOL: COBOL Book 4.* Greg Michaelson (6)50
Awad, Elias M, *Systems analysis and design.* T G Gough (9)110
Bouros, Michael P, *Getting into VSAM.* P W Garratt (6)50
Budgen, D, *Making use of Unix.* C D F Miller (10)39
Chien, Chao C, *Advanced business BASIC for microcomputers.* R. E Berry (9)109
Downs, J E, *Basic system design.* David Albury (7)47
Fernandez, Judi N, see **Ashley, Ruth**
Feuer, Alan, and Gehani, Narain, *Comparing and assessing programming languages — ADA, C and PASCAL.* David Albury (1)50
Gehani, Narain, see **Feuer, Alan**
Gray, Peter, *Logic, algebra and databases.* C D F Miller (3)51
Harman, Paul, and King, David, *Expert systems.* C D F Miller (6)49
Hoare, C A R, *Communicating sequential processes.* Roger Boyle (7)48
Hussain and Hussain, *Information processing systems for management.* R P Whittington (9)108
Jeffery, D R, and Lawrence, M J, *Systems analysis and design.* David Albury (6)51
Johnston, Howard, *Learning to program.* David Albury (7)48
Kacmar, Charles, *On-line systems design and implementation using COBOL and command level CICS.* David Albury (5)51
Kernighan, Brian, and Pike, Rob, *The Unix programming environment.* Andrew D Holt (3)51
King, David see **Harman, Paul**
Lawrence, M J, see **Jeffery, D R**
Lee, Barry S, *Data processing methods.* T G Gough (5)51
Licker, Paul S, *The art of managing software development.* David Albury (9)108
Nanney, T Ray, *Computing and problem solving with PASCAL.* Greg Michaelson (7)49
O'Leary, T J, and **Williams, B K,** *Computers and information processing.* B Richards (9)109
Otway, Harry, and Peltu, Malcolm, *The managerial challenge of new office technology.* Adrian Lepper (4)44
Peltu, Malcolm, see **Otway, Harry**
Perry, William E, *EDP administration and control.* T G Gough (7)49
Perry, William E, *Effective methods of EDP quality.* David Albury (6)49
Perry, William E, *The micro-mainframe link.* Adrian Lepper (7)47
Pike, Rob, see **Kernighan, Brian**
Queinnec, Christian, LISP. S D F Miller (3)50
Sobell, Mar, *A practical guide to the Unix system.* Andrew F Lack (4)43
Summer, Mary, *Computers: concepts and uses.* A M Lepper (10)39
Veryard, R, *Pragmatic data analysis.* David Albury (4)44
Walker, A N, *The Unix environment.* C D F Miller (3)50
Walsh, Robert J, *Modern guide to EDP design and analysis techniques.* T G Gough (9)110
Williams, B K, see **O'Leary, T J**